

TOPSERV® 121 acc. to INDRAMAT Standard INK, flexible two approvals drag chain servo cable, PUR, 0,6/1kV, meter marking



Technical data

- Special PUR drag chain cable acc. to UL AWM Style 20234 and CSA AWM
- **Temperature range**
flexing -40°C to +80°C
fixed installation -50°C to +90°C
- **Nominal voltage**
acc. to UL/CSA 1000 V
acc. to VDE
power supply cores U0/U 600/1000 V
control cores U0/U 300/500 V
- **A.c. test voltage**, 50 Hz
power supply cores 4000 V
control cores 1000 V
- **Insulation resistance**
min. 20 Ohm x km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing approx. 7,5x cable Ø
fixed installation approx. 4x cable Ø

Cable structure

- Bare copper, ultra-fine wire to DIN VDE 0295 cl. 6 and/or IEC 60228 cl. 6
- TPE core insulation, halogen-free
- Black power supply cores with imprint U1, V2, W3
- Green-yellow earth core
- Black control cores with white imprint 5-6 and 7-8
- Screening of the control cores in pairs wrapped with plastic aluminium foil, copper drain-wire tinned and tinned copper braid, approx. coverage 85%
- Control cores stranded in pairs and laid up in layers together with the power supply cores with optimal lay length and stabilising filler
- Fleece wrapping facilitates sliding
- Overall screening of tinned copper wire braid, coverage approx. 85%
- PUR outer sheath
- Sheath colour orange (RAL 2003) according to DESINA®
- with meter marking, change-over in 2009

Properties

- PUR outer sheath: low adhesion, extremely abrasion resistant, halogen-free, resistant to UV-, oil-, hydrolysis and microbial attack
- PUR sheath: self-extinguishing and flame retardant, test method B acc. to DIN VDE 0472 part 804 and IEC 60332-1
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen
- These cables are produced to high quality specifications and conform to the DESINA®-standard
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

• Acc. to INDRAMAT Standard

Part No.	cross-sec	INDRAMAT Part No.
73774	(4x1,0+2x(2x0,75))	INK-0653
700561	(4x1,0+2x(2x0,75))	INK-0650
73580	(4x2,5+2x(2x1))	INK-0602
700562	(4x4+(2x1)+(2x1,5))	INK-0603
700563	(4x6+(2x1)+(2x1,5))	INK-0504
700564	(4x10+(2x1)+(2x1,5))	INK-0605
75978	(4x16+(2x1,5))	INK-0606
75979	(4x25+(2x1,5))	INK-0607
75980	(4x35+(2x1,5))	INK-0667
700565	(4x50+(2x2,5))	INK-0668

INDRAMAT product designations INK are registered trademarks of Bosch-Rexroth AG and serve only for comparison purposes.

Note

- For extreme applications extending beyond standard solutions we recommend that you request our questionnaire, which has been especially designed for energy supply systems.
- Please observe applicable installation regulations for use in energy supply chains.

Application

The combination of supply cores with the control cores for the braking function and the thermal protection in these cables is ideal. Precision servomotors, as used today in many areas of highly-automated manufacturing processes, call for high-quality, reliable and long-lasting cables. These requirements are met to a high degree by these cables. The cables have an additional overall screen to ensure EMC compatibility, i.e. for protection against electromagnetic interference. Production is based on the specifications of established manufacturers of servo-drives and controls, as well as on various VDE, UL and CSA standards. Applications include machine, plant and robot construction, automation, drive, control and production engineering.

C€ = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
73774	(4 x 1 + 2 x (2 x 0,75))	11,5	148,0	254,0	17	700564	(4 x 10 + (2 x 1,0) + (2 x 1,5))	22,4	610,0	915,0	8
76105	(4 x 1,5 + 2 x (2 x 0,5))	12,4	145,0	250,0	16	74096	(4 x 10 + 2 x (2 x 1,0))	21,5	609,0	905,0	8
700561	(4 x 1,5 + 2 x (2 x 0,75))	12,2	170,0	290,0	16	78958	(4 x 10 + 2 x (2 x 1,5))	22,4	625,0	925,0	8
73579	(4 x 1,5 + 2 x (2 x 1,0))	12,6	182,0	262,0	16	73826	(4 x 16 + 2 x (2 x 1,0))	24,4	894,0	1225,0	6
78954	(4 x 1,5 + 2 x (2 x 1,5))	13,3	210,0	275,0	16	75978	(4 x 16 + 2 x (2 x 1,5))	26,9	904,0	1226,0	6
73580	(4 x 2,5 + 2 x (2 x 1,0))	14,6	229,0	336,0	14	74097	(4 x 25 + 2 x (2 x 1,0))	28,0	1313,0	1584,0	4
78955	(4 x 2,5 + 2 x (2 x 1,5))	15,6	241,0	350,0	14	75979	(4 x 25 + 2 x (2 x 1,5))	28,0	1325,0	1595,0	4
700562	(4 x 4 + (2 x 1,0) + (2 x 1,5))	16,0	318,0	485,0	12	74504	(4 x 35 + 2 x (2 x 1,0))	32,5	1912,0	2185,0	2
74094	(4 x 4 + 2 x (2 x 1,0))	16,2	312,0	475,0	12	75980	(4 x 35 + 2 x (2 x 1,5))	32,5	1621,0	2196,0	2
78956	(4 x 4 + 2 x (2 x 1,5))	16,7	324,0	490,0	12	74505	(4 x 50 + 2 x (2 x 1,0))	36,0	2574,0	2985,0	1
700563	(4 x 6 + (2 x 1,0) + (2 x 1,5))	18,8	445,0	615,0	10	75981	(4 x 50 + 2 x (2 x 1,5))	36,0	2585,0	2995,0	1
74095	(4 x 6 + 2 x (2 x 1,0))	18,2	437,0	606,0	10	700565	(4 x 50 + 2 x (2 x 2,5))	37,0	2600,0	3000,0	1
78957	(4 x 6 + 2 x (2 x 1,5))	19,0	450,0	621,0	10						

Dimensions and specifications may be changed without prior notice. (RN07)